TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-06-29-01**	**Date: 29-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.	
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010	
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	29-06-17	
Sample ID No	:	2017-06-29-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	29-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	472	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.79
4	Average percentage	%	5.7	

Prepared By:
Harshitha

AE-13
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Lab ID : CP-RW-2017-06-29-01 **Date: 29-06-17**

Sample ID : 2017-06-29-01/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	58	60	12.7	87.3	70-88
4.75	148	208	44.1	55.9	53-71
2.36	62	270	57.2	42.8	42-58
1.18	21	291	61.7	38.3	34-48
0.6	20	311	65.9	34.1	26-38
0.3	57	368	78.0	22.0	18-28
0.15	43	411	87.1	12.9	12-20
0.075	41	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	56	58	12.3	87.7	70-88
4.75	149	207	43.9	56.1	53-71
2.36	63	270	57.2	42.8	42-58
1.18	23	293	62.1	37.9	34-48
0.6	19	312	66.1	33.9	26-38
0.3	56	368	78.0	22.0	18-28
0.15	44	412	87.3	12.7	12-20
0.075	39	451	95.6	4.4	4-10

Note:
The results pertain to the samples received and tested.
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Lab ID : CP-RW-2017-06-28-01 Date: 28-06-17
Sample ID No : 2017-06-28-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample : 487 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
26.5	0	0	0	100.0	100
19	16	16	3.3	96.7	90-100
13.2	68	84	17.2	82.8	56-88
4.75	245	329	67.6	32.4	16-36
2.36	86	415	85.2	14.8	4-19
0.3	43	458	94.0	6.0	2-10
0.075	18	476	97.7	2.3	0-8
PAN	11	487	100.0	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample : 481 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
26.5	0	0	0.0	100.0	100
19	16	16	3.3	96.7	90-100
13.2	68	84	17.5	82.5	56-88
4.75	245	329	68.4	31.6	16-36
2.36	86	415	86.3	13.7	4-19
0.3	43	458	95.2	4.8	2-10
0.075	15	473	98.3	1.7	0-8
PAN	8	481	100.0	0.0	0

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-06-28-01	Date: 28-06-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.	
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010	
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-06-17	
Sample ID No	:	2017-06-28-01/01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	28-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	510	507
2	Weight of the sample After extraction	B	487	481
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.51	5.13
4	Average percentage	%	4.82	

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Certificate No.: T- 4358

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-06-22-01** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP,
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Customer's Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-17
Sample ID No	:	2017-06-22-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	22-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**48.2**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**229.5**	Min. 220°C
	Fire point, °C	**234**	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2017-06-22-02 Date: 23-06-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-17
Sample ID No	:	2017-06-22-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	22-06-17
Oven Dry Weight	:	11500 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	332	332	2.9	97.1	95-100
22.4	2357	2689	23.4	76.6	60-80
11.2	2273	4962	43.1	56.9	40-60
4.75	2152	7114	61.9	38.1	25-40
2.36	1836	8950	77.8	22.2	15-30
0.6	380	9330	81.1	18.9	8-22
0.075	2150	11480	99.8	0.2	0-5

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